

ccccgccgtg agtgagctct caccgccgtc agcccaatga gcctcttcgg gcttctcctg 60
 gtgacatctg cccctggccgg ccagagacga gggactcagg cggaatccaa cctgagtagt 120
 aaatccagc tttccagcaa caaggacag aacggagtac aagatccca gcatgagaga 180
 attattctg tgtctactaa tgggaagtatt cacagcccaa ggttccctca tacttatcca 240
 agaaatcagg tcttggtatg gagattagta gcagtagagg aaaaagtatg gatccaaact 300
 acgtttgatg aaagatttgg gcttgaagac ccaggaagtg acatatgcaa gtatgatatt 360
 gtagaagtgg aggaaccag tgaaggaaact atattagggc gctgggtggg ttctggtaact 420
 gtaccaggaa aacagatttc taagggaat caaatlagga taagatttgt atctgatgaa 480
 tattttccct ctgaaccagg gttctgcac cactacaaca ttgcatgcc acaattcaca 540
 gaagctgtga gtccctcagt gctacccct tcagctttgc cactggacct gcttaataat 600
 gctataactg cctttagtac cttggaagac cttattcgat atcttgaacc agagagatgg 660
 cagttggact tagaagatct atatatgcca acttggcaac ttcttggcaa ggcttttgtt 720
 ttggaagaa aatccagagt ggtggatctg aaccttctaa cagaggaggg aagattatac 780
 agctgcacac ctctgaactt ctcaagtctc ataagggaag aactaaagag aaccgatacc 840
 attttctggc caggttgtct cctggtttaa cgctgtggtg ggaactgtgc ctgttgtctc 900
 cacaattgca atgaatgca atgtgtccca agcaaaatta ctaaaaata ccacgaggtc 960
 cttcagttga gaccaagac cgggtgcagg ggattgcaca aatcactcac cgacgtggcc 1020
 ctggagcacc atgaggagtg tgactgtgtg tgcagagga gcacaggagg atagccgat 1080
 caccaccagc agctcttgc cafafctgtg cagtgcagtg gctgattcta ttagagaacg 1140
 tatgcgttat ctccatcctt aatctcagtt gtttgcttca aggaccttc atcttcagg 1200

FIG. 1A

ttacagtgt attctgaag agggagacac aaacagaatt aggaattgtg caacagctct 1260
 tttagagga ggcctaagg acaggagaaa aggtcttcaa tcgtggaag aaaattaat 1320
 gttgtattaa atagatcacc agctagtctc agagtcacca tglactatt ccactagctg 1380
 ggttctgtat ttacgttctt tcgatacggc ttagggtaat gtcagtacag gaaaaaact 1440
 gtgcaagtga gcacctgatt ccgttgcctt gcttaactct aaagctccat gtcctgggcc 1500
 taaaatcgta taaaatctgg atttttttt tttttttgc tcatattcac atatgtaaac 1560
 cagaacattc tatgtactac aaacctgggt tttaaaaagg aactatgttg ctatgtaata 1620
 aacttgtgtc rtgctgatag gacagactgg atttttcata tttcttatta aaatttctgc 1680
 catttagaag aagagaacta cattcatggt ttggaagaga taaacctgaa aagaagagtg 1740
 gccttatcct cactttatcg ataagtgaat ttatttgttt cattgtgtac atttttatat 1800
 tctccttttg acattataac tgttggcttt tctaactctg ttaaatatat ctatttttac 1860
 caaaggtaatt taatatcttt ttttatgaca acttagatca actattttta gcttggtaaa 1920
 tttttctaaa cacaattgtt atagccagag gaacaagat ggotataaaa atattgttgc 1980
 cctggacaaa aatcacatgta tntccatccc ggaatgggtc tagogttgga ttaaacctgc 2040
 attttaaaaa acctgaattg ggaanggaan ttggttaagg ttggccaaac ttttttgaaa 2100
 ataattaa

2108

FIG. 1B

cgggtaaat ccagttttcc agcaacaagg aacagaacgg agtacaagat cctcagcatg 60
 agagaattat tactgtgtct actaatggaa gtattcacag cccaagggtt cctcatactt 120
 atccaagaaa tacggctctg gtatggagat tagtagcagt agaggaaaat gtatggatac 180
 aacttaccgt tgaigaaaga ttggggcttg aagaccaga agatgacata tgcaagtatg 240
 attttgtaga agttgaggaa cccagtgtg gaactatatt agggcgcttg tgtggttctg 300
 gtactgtacc aggaaaacag atttctaag gaatcaaat taggataaga ttgtatctg 360
 atgaatattt tccttctgaa ccagggttct gcattccacta caacattgtc atgccacaat 420
 tcacagaagc tgtgagtcct tcagtgtac ccccttcagc ttggccactg gaactgttta 480
 ataattctat aactgccttt agtaccttgg aagaccttat tcgatatctt gaaccagaga 540
 gatggcagtt ggaacttaga gatctatata ggccaacttg gcaacttctt gccaaggctt 600
 ttgtttttgg aagaaaatcc agagtggtag atctgaacct tctaacagag gaggtaagat 660
 tatacagctg cacacctcgt aacttctcag tgtccataag ggaagaacta aagagaaccg 720
 ataccatttt ctggccaggt tgtctcctgg ttaaacgctg tgglgggaac tlgcctgtt 780
 gtctccaaa ttgcaatgaa tgtcaatgtg tccaagcaa agttactaaa aatatccacg 840
 aggtccttca gttgagacca aasaccggtg tcaggggatt gcacaaatca ctaccgacg 900
 tggcccttga gcacctgag gagtgtgact gtgtgttag agggagcaca ggaggatagc 960
 cgcacacca ccagcagctc ttgccagag ctgtgcagtg cagtggctga ttctattaga 1020
 gaacgtatgc gttatctcca tccttaactc cagttgtttg cttaaggac ctttcatctt 1080
 caggatttac agtgacttct gaagaggag acatcaaaaca gaattaggag ttgtgcaaca 1140
 gctcttttg gagggagcct aaaggacagg agaaaaggtc ttcaatcgtg gaaagaaaat 1200
 taatgttgt attaaataga tcaccagcta gtttcagagt taccatgtat gtattccact 1260
 agctgggttc tgtatttcag ttctttcgt acggtttagg gtaatgtcag tacaggaaaa 1320
 aaactgtgca agtgagcacc tgattccgtt gccttgctta actctaagc tccatgtcct 1380
 gggcctaaaa tcgtataaaa tctggatttt ttttttttt ttgtctcata ttacatatg 1440
 taaaccagaa cattctatgt actacaacc tggtttttaa aaaggaaacta tgttgcatag 1500
 aattaacctt gtgtcatgct galaggacag actgga 1536

FIG.3

Gly Lys Phe Gln Phe Ser Ser Asn Lys Glu Gln Asn Gly Val Gln Asp
 1 5 10 15
 Pro Gln His Glu Arg Ile Ile Thr Val Ser Thr Asn Gly Ser Ile His
 20 25 30
 Ser Pro Arg Phe Pro His Thr Tyr Pro Arg Asn The Val Leu Val Trp
 35 40 45
 Arg Leu Val Ala Val Glu Glu Asn Val Trp Ile Gln Leu Thr Phe Asp
 50 55 60
 Glu Arg Phe Gly Leu Glu Asp Pro Glu Asp Asp Ile Cys Lys Tyr Asp
 65 70 75 80
 Phe Val Glu Val Glu Glu Pro Ser Asp Gly The Ile Leu Gly Arg Trp
 85 90 95
 Cys Gly Ser Gly Thr Val Pro Gly Lys Gln Ile Ser Lys Gly Asn Gln
 100 105 110
 Ile Arg Ile Arg Phe Val Ser Asp Glu Tyr Phe Pro Ser Glu Pro Gly
 115 120 125
 Phe Cys Ile His Tyr Asn Ile Val Met Pro Gln Phe Thr Glu Ala Val
 130 135 140
 Ser Pro Ser Val Leu Pro Pro Ser Ala Leu Pro Leu Asp Leu Leu Asn
 145 150 155 160
 Asn Ale Ile Thr Ala Phe Ser Thr Leu Glu Asp Leu Ile Arg Tyr Leu
 165 170 175
 Glu Pro Glu Arg Trp Gln Leu Asp Leu Glu Asp Leu Tyr Arg Pro Thr
 180 185 190
 Trp Gln Leu Leu Glu Lys Ala Phe Val Phe Gly Arg Lys Ser Arg Val
 195 200 205
 Val Asp Leu Asn Leu Leu Thr Glu Glu Val Arg Leu Tyr Ser Cys Thr
 210 215 220
 Pro Arg Asn Phe Ser Val Ser Ile Arg Glu Glu Leu Lys Arg Thr Asp
 225 230 235 240
 the Ile Phe Trp Pro Gly Cys Leu Leu Val Lys Arg Cys Gly Gly Asn
 245 250 255
 Cys Ala Cys Cys Leu His Asn Cys Asn Glu Cys Gln Cys Val Pro Ser
 260 265 270
 Lys Val Thr Lys Lys Tyr His Glu Val Leu Gln Leu Arg Pro Lys Thr
 275 280 285
 Gly Val Arg Gly Leu His Lys Ser Leu Thr Asp Val Ala Leu Glu His
 290 295 300
 His Glu Glu Cys Asp Cys Val Cys Arg Gly Ser Thr Gly Gly
 305 310 315

FIG.4

cacctggaga cacagaagag ggctctagga aaaatttttg atggggatta tgtggaaact 60
 accctgcat tctctgctgc cagagccggc caggcgcttc caccgcagcg cagcccttcc 120
 ccgggctggg ctgagccttg gagtcgtgc tccccagtg cccgcccgga gtgagccctc 180
 gccccagtca gccaaatgct cctcctcggc cctcctcggc ctcctcctgc gctggccggc 240
 caaagaacgg ggactcgggc tgagtccaac ctgagcagca agttgcagct ctccagcgac 300
 aaggaacaga acggagtgca agatccccg catgagagag ttgtcactat atctggtaat 360
 ggggcatcc acagcccgaa gtttccctat acgtacccaa gaatatggg gctgggtg 420
 agattagtig cagtagatga tatagtgcgg atccagctga catttgatga gagatttgg 480
 ctggaagtc cagaagcga tatatgcaag tatgattttg tagaagtiga ggagccag 540
 gatggaagtg ttttaggacg ctggtgtggt tctgggactg tgccaggaaa gcagacttct 600
 aaaggaaatc atatcagat aagatttga tctgatgagt atttccatc tgaaccgga 660
 ttctgcatcc actacagtat tatcatgcca caagtcacag aaaccacgag tcttcggtg 720
 ttgccccctt catctttgtc attggacctg ctcaacaatg ctgtgactgc ctccagtacc 780
 ttggaagagc tgattcggta cctagagcca gatcgatggc aggtggactt ggacagcctc 840
 tacaagccaa catggcagct ttgggcaag gctttcctgt atgggaaaaa aagcaaatg 900
 gtgaatctga atctctcaa ggaagaggta aaactctaca gctgcacacc ccggaacttc 960
 tcagtgtcca tacgggaaga gctaaagagg acagatacca tatctggcc aggttgttt 1020
 ctggtcaagl gctgtggagg aaatgtgccc tgttgtctcc ataattgcaa tgaatgtcag 1080
 tgtgtccac gtaaatgac aaaaagtac catgaggtcc ttcagttgag accaaaaact 1140
 ggagtcaagg gattgcataa gtcactcact gatgtggctc tggaacacca cgaggaaatg 1200
 gactgtgtgt gtagaggaaa cgcaggaggg taactgcagc ctctgtagca gcacacgtga 1260
 gcactggcat tctgtgtacc ccacaagca accttcctcc ccaccagcgt tggccgagg 1320
 gctctcagct gctgatgctg gctatggtaa agatcttact cgtctccaac caaattctca 1380
 gttgtttgct tcaatgcct tcctctcag gacttcaagt gtcttctaaa agaccagagg 1440
 caccoanagg agtcaatcac aaagcactgc accg 1474

FIG.5

Met Leu Leu Leu Gly Leu Leu Leu Leu Thr Ser Ala Leu Ala Gly Gln
 1 5 10 15
 Arg Thr Gly Thr Arg Ala Glu Ser Asn Leu Ser Ser Lys Leu Gln Leu
 20 25 30
 Ser Ser Asp Lys Glu Gln Asn Gly Val Gln Asp Pro Arg His Glu Arg
 35 40 45
 Val Val Thr Ile Ser Gly Asn Gly Ser Ile His Ser Pro Lys Phe Pro
 50 55 60
 His Thr Tyr Pro Arg Asn Met Val Leu Val Trp Arg Leu Val Ala Val
 65 70 75 80
 Asp Glu Asn Val Arg Ile Gln Leu Thr Phe Asp Glu Arg Phe Gly Leu
 85 90 95
 Glu Asp Pro Glu Asp Asp Ile Cys Lys Tyr Asp Phe Val Glu Val Glu
 100 105 110
 Glu Pro Ser Asp Gly Ser Val Leu Gly Arg Trp Cys Gly Ser Gly Thr
 115 120 125
 Val Pro Gly Lys Gln Thr Ser Lys Gly Asn His Ile Arg Ile Arg Phe
 130 135 140
 Val Ser Asp Glu Tyr Phe Pro Ser Glu Pro Gly Phe Cys Ile His Tyr
 145 150 155 160
 Ser Ile Ile Met Pro Gln Val Thr Glu Thr Thr Ser Pro Ser Val Leu
 165 170 175
 Pro Pro Ser Ser Leu Ser Lei Asp Leu Leu Asn Asn Ala Val Thr Ala
 180 185 190
 Phe Ser Thr Leu Glu Glu Leu Ile Arg Tyr Leu Glu Pro Asp Arg Trp
 195 200 205
 Gln Val Asp Leu Asp Ser Leu Tyr Lys Pro Thr Trp Gln Leu Leu Gly
 210 215 220
 Lys Ala Phe Leu Tyr Gly Lys Lys Ser Lys Val Val Asn Leu Asn Leu
 225 230 235 240
 Leu Lys Glu Glu Val Lys Leu Tyr Ser Cys Thr Pro Arg Asn Phe Ser
 245 250 255
 Val Ser Ile Arg Glu Glu Leu Lys Arg Thr Asp Thr Ile Phe Trp Pro
 260 265 270
 Gly Cys Leu Leu Val Lys Arg Cys Gly Gly Asn Cys Ala Cys Cys Leu
 275 280 285

FIG. 6A

His	Asn	Cys	Asn	Glu	Cys	Gln	Cys	Val	Pro	Arg	Lys	Val	Thr	Lys	Lys
	290					295					300				
Tyr	His	Glu	Val	Leu	Gln	Leu	Arg	Pro	Lys	Thr	Gly	Val	Lys	Gly	Leu
305					310					315					320
His	Lys	Ser	Leu	Thr	Asp	Val	Ala	Leu	Glu	His	His	Glu	Glu	Cys	Asp
				325					330					335	
Cys	Val	Cys	Arg	Gly	Asn	Ala	Gly	Gly							
			340					345							

FIG. 6B

hPDGF-C	M	S	L	F	G	L	L	V	T	S	A	L	A	G	R	R	G	T	Q	A	E	S	N	L	S	S	K	F	Q	F	S	S	N	K	E	Q	N	G	40			
mPDGF-C	M	L	L	L	G	L	L	L	T	S	A	L	A	G	R	T	G	T	R	R	E	S	N	L	S	S	K	L	Q	L	S	S	J	O	K	E	O	N	G	40		
hPDGF-C	V	Q	P	O	H	E	R	L	L	T	V	S	T	I	N	G	S	I	H	S	P	P	F	P	H	T	Y	F	R	N	T	V	L	V	N	R	L	V	A	V	80	
mPDGF-C	V	Q	D	P	R	M	E	R	V	V	T	T	S	G	I	N	G	S	T	H	S	R	K	F	P	H	T	Y	F	R	N	M	V	L	V	N	R	L	V	A	V	80
hPDGF-C	F	E	N	V	I	Q	L	T	F	D	E	R	F	G	L	E	D	P	E	D	I	C	K	Y	D	F	V	E	V	E	E	P	S	D	G	T	I	S	120			
mPDGF-C	G	E	N	V	I	Q	L	T	F	D	E	R	F	G	L	E	D	P	E	D	I	C	E	Y	D	F	V	E	V	E	E	P	S	D	G	S	V	I	S	120		
hPDGF-C	G	R	W	C	G	S	G	T	V	F	G	K	Q	I	S	K	G	N	O	I	R	I	R	F	V	S	D	E	Y	F	P	S	E	P	G	F	C	I	H	Y	160	
mPDGF-C	G	R	W	C	G	S	G	T	V	F	G	K	Q	T	S	K	G	N	H	I	R	I	R	F	V	S	D	E	Y	E	P	S	E	P	G	F	C	I	H	Y	160	
hPDGF-C	N	I	V	M	P	Q	F	T	E	A	V	S	P	S	V	L	P	P	S	S	L	P	L	D	L	L	N	N	A	I	T	A	F	S	T	L	F	D	L	I	200	
mPDGF-C	S	I	T	M	P	Q	V	T	E	T	T	S	P	S	V	L	P	P	S	S	L	S	L	D	L	L	N	N	A	V	T	A	F	S	T	L	F	D	L	I	200	
hPDGF-C	R	Y	L	E	P	F	R	W	Q	L	P	L	E	O	L	Y	E	F	T	W	Q	L	L	C	K	A	F	V	F	G	R	K	S	R	V	V	D	L	N	L	240	
mPDGF-C	R	Y	L	E	P	D	P	W	Q	V	P	L	P	S	L	Y	K	P	T	W	Q	L	L	G	F	A	F	L	Y	G	K	K	S	N	V	V	N	L	N	L	240	
hPDGF-C	L	T	E	E	V	R	L	Y	S	C	T	P	R	N	F	S	V	S	I	R	E	E	L	K	R	T	D	T	I	F	W	P	G	G	L	L	V	K	R	C	280	
mPDGF-C	L	K	F	F	V	K	L	Y	S	C	T	P	R	N	F	S	V	S	I	R	E	E	L	K	R	T	D	T	I	F	W	P	G	G	L	L	V	K	R	C	280	
hPDGF-C	G	G	N	C	A	C	C	L	R	N	C	N	E	C	Q	C	V	P	S	K	V	T	K	K	Y	H	E	V	L	Q	L	R	P	K	T	G	V	R	G	Y	320	
mPDGF-C	G	G	N	C	A	C	C	L	R	V	C	N	E	C	Q	C	V	P	R	K	V	T	K	K	Y	H	E	V	L	O	L	R	P	K	T	G	V	R	G	Y	320	
hPDGF-C	H	E	S	L	T	D	V	A	L	E	H	H	E	E	C	D	C	V	C	R	G	S	T	G	G															345		
mPDGF-C	H	E	S	L	T	D	V	A	L	E	H	H	E	E	C	D	C	V	C	R	G	N	A	G	G															345		

FIG.7

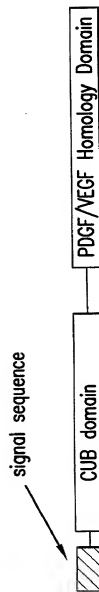


FIG.8

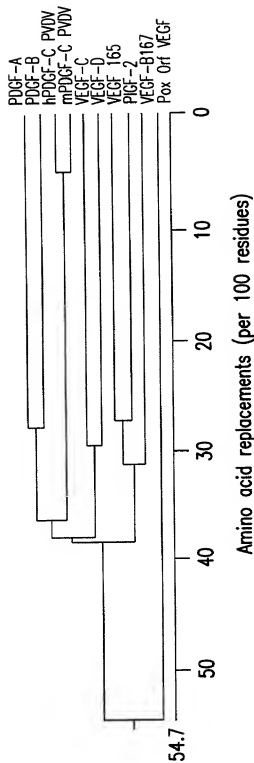


FIG.10

VEGF 165	-----	1
PIGF-2	-----	1
VEGF-B167	-----	1
Pgx Crf VEGF	-----	1
VEGF-C	M H L L G F F S V A C S L L A A A L L P G P R E A P A A A A	30
VEGF-D	----- M Y G E W G M G N I L M M F H	15
PDGF-A	-----	1
PDGF-B	-----	1
hPDGF-C PVDV	-----	1
mPDGF-C PVDV	-----	1
VEGF 165	-----	1
PIGF-2	-----	1
VEGF-B167	-----	1
Pox Orf VEGF	-----	1
VEGF-C	A F E S G L D L S D A E P D A G E A T A Y A S K D L E E Q L	60
VEGF-D	V Y L V O G F R S E H G P Y K D F S F E R S S R S M L E R S	45
PDGF-A	--- M R T L A C L L L L G C G Y L A N V L A E E A E I P	26
PDGF-B	M N R C W A L F L S L C C Y L R L V S A E G D P I P E E L Y	30
hPDGF-C PVDV	--- M P Q F T E A V S P S V L P P S A L P L D L L	23
mPDGF-C PVDV	--- M P Q V T E T T S P S V L P P S A L S L D L L	23
VEGF 165	----- M N F L L S W V E W	10
PIGF-2	----- M P V M R L F P C F	10
VEGF-B167	----- M S P L L	5
Pox Orf VEGF	-----	1
VEGF-C	R S V S S V D E L M T V L Y P E Y W K M Y K C Q L R K G G W	90
VEGF-D	E O O I R A A S S L E E L L O I A H S E D W K L W R C R L K	75
PDGF-A	R E V I I E R L A R S Q I H S I R D L Q R L L E I D S V G S E	56
PDGF-B	E M L S D H S I R S F D D L O R L L H G D P - - - - G E E	55
hPDGF-C PVDV	N N A I T A F S T L E D L I R Y L E P E R W Q L D L E D L Y	53
mPDGF-C PVDV	N N A V T A F S T L E E L I R Y L E P D R W Q V D L D S L Y	53
VEGF 165	S L A L L L Y L H H A K W S Q A A P M A E G G G Q N H H E V	40
PIGF-2	L Q L L A G L A L P A V P P Q Q W A L S A G N G S S E V E V	40
VEGF-B167	R R L L A A L L Q L A P A Q A P V S Q P D A P G H Q R K V	35
Pox Orf VEGF	--- M K L L V G I L V A V C L H Q Y L L N A D S N T	24
VEGF-C	Q H N R E Q A N L N S R T E E T I K F A A A H Y N T E I - L	119
VEGF-D	L K S L A S M D S R S A S H R S T R F A A T F Y D T E T - L	104
PDGF-A	D S L D T S L R A H G V H - - A T K H V P E K R P L R I R R	84
PDGF-B	D G A E L D L N M T R S H S G G E L E S L A R G R R S L G S	85
hPDGF-C PVDV	R P T W Q L L G K A F Y V G R K S R - - - - - V V D L	75
mPDGF-C PVDV	K P T W Q L L G K A F L Y G K K S K - - - - - V V N L	75

FIG. 9A

VEGF 165	V	K	F	M	D	V	Y	O	R	S	Y	C	H	P	I	E	T	L	V	D	I	F	Q	E	Y	P	D	E	I	E	70
PIGF-2	V	P	F	Q	E	V	W	G	R	S	Y	C	R	A	L	E	R	L	V	D	V	V	S	E	Y	P	S	E	V	E	70
VEGF-B167	V	S	W	I	D	V	T	R	A	T	C	Q	P	R	E	V	V	V	P	L	T	V	E	L	M	G	T	V	A	65	
Pox Orf VEGF	K	G	W	S	E	V	L	K	G	S	E	C	K	P	R	P	I	V	V	P	V	S	E	T	H	P	E	L	T	S	54
VEGF-C	K	S	I	D	N	E	W	R	K	T	Q	C	M	P	R	E	V	C	I	D	V	G	K	E	F	G	V	A	T	N	149
VEGF-D	K	V	I	D	E	E	W	D	R	T	Q	C	S	P	R	E	T	C	V	E	V	A	S	E	L	G	K	T	T	N	134
PDGF-A	K	R	S	T	E	E	A	V	P	A	V	C	K	T	R	T	V	I	Y	E	I	P	R	S	Q	V	D	P	T	S	114
PDGF-B	L	T	I	A	E	P	A	M	I	A	E	C	K	I	R	T	E	V	F	E	I	S	R	R	L	I	D	R	T	N	115
hPDGF-C PVDV	N	L	L	T	E	E	V	R	L	Y	S	C	T	P	R	N	F	S	V	S	I	-	R	E	E	L	K	R	T	D	104
mPDGF-C PVDV	N	L	L	K	E	E	V	K	L	Y	S	C	T	P	R	N	F	S	V	S	I	-	R	E	E	L	K	R	T	D	104

VEGF 165	Y	I	F	K	-	-	P	S	C	V	P	L	M	R	C	G	G	-	-	-	C	C	N	D	E	G	L	E	C	V	95	
PIGF-2	H	M	F	S	-	-	P	S	C	V	S	L	L	R	C	T	G	-	-	-	C	C	G	D	E	D	L	H	C	V	95	
VEGF-B167	K	Q	L	V	-	-	P	S	C	V	T	V	Q	R	C	G	G	-	-	-	C	C	P	D	D	G	L	E	C	V	90	
Pox Orf VEGF	Q	R	F	N	-	-	P	P	C	V	T	L	M	R	C	G	G	-	-	-	C	C	N	D	E	S	L	E	C	V	79	
VEGF-C	T	F	F	K	-	-	P	P	C	V	S	V	Y	R	C	G	G	-	-	-	C	C	N	S	E	G	L	Q	C	M	174	
VEGF-D	T	F	F	K	-	-	P	P	C	V	N	V	F	R	C	G	G	-	-	-	C	C	N	E	E	G	V	M	C	M	159	
PDGF-A	A	N	F	L	I	W	P	P	C	V	E	V	K	R	C	T	G	-	-	-	C	C	N	T	S	S	V	K	C	Q	141	
PDGF-B	A	N	F	L	V	W	P	P	C	V	E	V	Q	R	C	S	G	-	-	-	C	C	N	N	R	N	V	Q	C	R	142	
hPDGF-C PVDV	T	I	I	F	-	-	W	P	G	C	L	L	V	K	R	C	G	G	N	C	A	C	L	H	N	C	N	E	C	Q	132	
mPDGF-C PVDV	T	I	I	F	-	-	W	P	G	C	L	L	V	K	R	C	G	G	N	C	A	C	C	L	E	N	C	N	E	C	Q	132

VEGF 165	P	T	E	E	S	N	I	T	M	Q	I	M	R	I	K	-	-	-	-	-	P	H	Q	G	Q	-	-	-	-	-	H	I	117
PIGF-2	P	V	E	T	A	N	V	T	M	Q	L	L	K	I	R	-	-	-	-	-	S	G	D	R	P	-	-	-	-	-	S	Y	117
VEGF-B167	P	T	G	Q	H	Q	V	R	M	Q	I	L	M	I	R	Y	-	-	-	-	P	S	S	Q	L	-	-	-	-	-	-	-	111
Pox Orf VEGF	P	T	E	E	V	N	V	S	M	E	L	L	G	A	S	G	S	G	S	N	G	M	Q	-	-	-	-	-	-	-	R	L	104
VEGF-C	N	T	S	T	S	Y	L	S	K	I	L	F	E	I	T	V	-	-	-	-	P	L	S	Q	G	-	-	-	-	-	P	K	197
VEGF-D	N	T	S	T	S	Y	I	S	K	O	L	F	E	I	S	V	-	-	-	-	P	L	T	S	V	-	-	-	-	-	P	E	182
PDGF-A	P	S	R	V	H	H	R	S	V	K	V	A	K	V	E	Y	V	R	K	K	P	K	L	-	-	-	-	-	-	-	K	E	166
PDGF-B	P	T	Q	V	Q	L	R	P	V	Q	V	R	K	L	E	I	V	R	K	K	P	I	F	-	-	-	-	-	-	-	K	K	167
hPDGF-C PVDV	C	V	P	-	S	K	V	T	K	K	Y	H	E	V	L	Q	L	R	P	K	T	G	V	R	G	L	H	K	S	L	161		
mPDGF-C PVDV	C	V	P	-	R	K	V	T	K	K	Y	H	E	V	L	Q	L	R	P	K	T	G	V	K	G	L	H	K	S	L	161		

VEGF 165	G	E	M	S	F	L	Q	H	N	K	-	C	E	C	R	P	K	K	-	-	-	-	-	-	-	-	-	-	-	-	D	R	136						
PIGF-2	V	E	L	T	S	Q	H	V	R	-	-	C	E	C	R	P	L	R	E	-	-	-	-	-	-	-	-	-	-	-	K	M	P	E	R	142			
VEGF-B167	G	E	M	S	L	E	E	H	S	Q	-	C	E	C	R	P	K	K	K	-	-	-	-	-	-	-	-	-	-	-	D	S	A	V	K	P	135		
Pox Orf VEGF	S	F	V	E	H	K	K	-	-	-	-	C	D	C	R	P	R	F	T	-	-	-	-	-	-	-	-	-	-	-	-	T	T	P	123				
VEGF-C	P	V	I	T	I	S	F	A	N	H	T	S	C	R	C	M	S	K	L	D	-	-	-	-	-	-	-	-	-	-	V	Y	R	Q	V	H	S	I	224
VEGF-D	L	V	P	V	K	I	A	N	H	T	G	C	K	C	L	P	T	G	P	-	-	-	-	-	-	-	-	-	-	-	-	R	H	P	Y	S	I	207	
PDGF-A	V	Q	V	R	L	E	E	H	L	E	-	C	A	C	A	T	I	S	L	N	P	D	Y	R	E	E	D	T	G	R	195								
PDGF-B	A	T	V	T	L	E	D	H	L	A	-	C	K	C	E	T	V	A	A	A	R	P	V	T	R	S	P	G	G	S	196								
hPDGF-C PVDV	T	D	V	A	L	E	H	H	E	E	-	C	D	C	V	C	R	G	S	T	G	G	-	-	-	-	-	-	-	-	-	-	-	-	-	182			
mPDGF-C PVDV	T	D	V	A	L	E	H	H	E	E	-	C	D	C	V	C	R	G	N	A	G	G	-	-	-	-	-	-	-	-	-	-	-	-	-	182			

FIG. 9B

VEGF 165	A	R	Q	E	N	P	C	G	P	C	S	S	E	R	R	K	H	L	F	V	Q	D	P	Q	T	C	K	C	S	166		
PIGF-2	R	P	K	G	R	G	K	R	R	R	E	N	Q	R	P	T	D	C	H	L	C	G	D	A	V	P	R	R		170		
VEGF-B167	D	S	P	R	P	L	C	P	R	C	T	Q	H	H	Q	R	P	D	P	R	T	-	-	-	-	C	R	C	R	161		
Pox Orf VEGF	T	T	T	R	P	P	R	R	R	R																				133		
VEGF-C	I	R	R	S	L	R	A	T	-	L	P	Q	C	Q	A	A	N	K	I	C	P	T	N	Y	M	W	N	N	H	I	253	
VEGF-D	I	R	R	S	L	O	T	P	E	E	D	E	C	P	H	S	K	K	L	C	P	I	D	M	L	W	D	N	T	K	236	
PDGF-A	P	R	E	S	G	K	K	R	K	R	K	L	K	P	T																211	
PDGF-B	Q	E	Q	R	A	K	T	P	Q	I	R	V	T	I	R	T	V	R	V	R	R	P	P	K	G	K	H	R	K	F	225	
hPDGF-C PVDV																															182	
mPDGF-C PVDV																															182	
VEGF 165	K	N	T	D	S	-	R	C	K	A	R	Q	L	E	L	N	E	R	T	C	R	C	D	K	P	R	R				192	
PIGF-2																															170	
VEGF-B167	R	R	R	S	F	L	R	C	Q	G	R	G	L	E	L	N	P	D	T	C	R	C	R	K	L	R	R					188
Pox Orf VEGF																															133	
VEGF-C	C	R	C	L	A	Q	E	D	F	M	F	S	S	D	A	G	D	I	S	T	D	G	F	H	D	I	C	G	P	N	283	
VEGF-D	C	K	C	V	L	O	D	E	-	T	P	L	P	G	T	E	D	H	S	Y	L	O	E	P	T	L	C	G	P	H	266	
PDGF-A																															211	
PDGF-B	K	H	T	H	D	K	T	A	L	K	E	T	L	G	A																241	
hPDGF-C PVDV																															182	
mPDGF-C PVDV																															182	
VEGF 165																															192	
PIGF-2																															170	
VEGF-B167																															188	
Pox Orf VEGF																															133	
VEGF-C	K	E	L	D	E	E	I	C	Q	C	V	C	R	A	G	L	R	P	A	S	C	G	P	H	K	E	L	D	R	N	313	
VAGF-D	M	T	F	D	E	D	R	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	273	
PDGF-A																															211	
PDGF-B																															241	
hPDGF-C PVDV																															182	
mPDGF-C PVDV																															182	
VEGF 165																															192	
PIGF-2																															170	
VEGF-B167																															188	
Pox Orf VEGF																															133	
VEGF-C	S	C	Q	C	V	C	K	N	K	L	F	P	S	Q	C	G	A	N	R	E	F	D	E	N	T	C	Q	C	V	C	343	
VEGF-D	-	C	E	C	V	C	K	A	P	C	P	G	D	L	I	O	H	P	E	N	-	-	-	-	-	C	S	C	F	E	297	
PDGF-A																															211	
PDGF-B																															241	
hPDGF-C PVDV																															182	
mPDGF-C PVDV																															182	

FIG. 9C

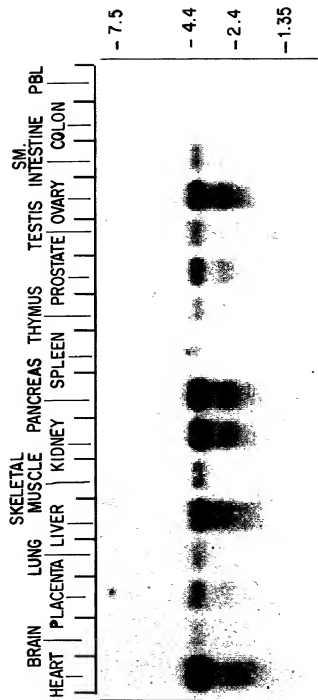
VEGF 165		192
PlGF-2		170
VEGF-B167		188
Pox Orf VEGF		133
VEGF-C	K R T C P R N Q P L N P G K C A C E C T E S P Q K C L L K G	373
VEGF-D	C K E S L E S C C O K K I - - - - -	312
PDGF-A		211
PDGF-B		241
hPDGF-C PVDV		182
mPDGF-C PVDV		182
VEGF 165		192
PlGF-2		170
VEGF-B167		188
Pox Orf VEGF		133
VEGF-C	K K F H H Q T C S C Y R R P C T N R Q K A C E P G F S Y S E	403
VEGF-D	- - F H P D T C S C E D R - C P F H T R T C A S R K P A C G	338
PDGF-A		211
PDGF-B		241
hPDGF-C PVDV		182
mPDGF-C PVDV		182
VEGF 165		192
PlGF-2		170
VEGF-B167		188
Pox Orf VEGF		133
VEGF-C	E V C R C V P S Y W K R P Q M S	419
VEGF-D	K H W R F P K E T R A Q G L Y S O E N P	358
PDGF-A		211
PDGF-B		241
hPDGF-C PVDV		182
mPDGF-C PVDV		182

FIG. 9D

mPDGF-C CUB	ERVVTISGNGSIHSPKFFPHTYPRNMVLVWRLVAVDENVR	185
hPDGF-C CUB	ERTITVSTINGSIHSPREFPHTYPRNTVLVWRLVAVENVW	159
hBMP-1 CUB1	CGETLQDSTGNFSSPEYIPNGYSANNNCVWRITSVTPGE-K	1360
hBMP-1 CUB2	CGGDVKKDYGINIQSPNYDDYRPSKVCITWRIOVSEGF-HV	473
hBMP-2 CUB3	CGGFLTKLNGSITSPGWPEYIPNKNCTWQLVAPITQY-R	1629
Neuropilin CUB1	GDTIKIESPCYLTSPGYPMSHPSKCEWLIQAPDIPYQRI	167
Neuropilin CUB2	C SQNYITPSGVITKSPGFPEEYPNLCCYIVVAPXMS-E	195
mPDGF-c cub	QLTFDERDGLD-----PEDDOCKYDPVEVEE--PSDGSVL	120
hPDGF-C CUB	QLTFDERFGLD-----PEDDICKYDFVEVEE--PSDGTTL	93
hBMP-1 CUB1	ILNFI TS-LDLIYR SA-----LCWYDIYEVVRDCPWAKA	PLR 393
hBMP-1 CUB2	GLTFQS-FETIERND-----SCAYDIYEVVRDGHSE	STLI 506
hBMP-1 CUB3	SLIQDF-FETIEGND-----VCKYDFVEVRSGLTAD	SKLH 662
Neuropilin CUB1	MLNFNPHFDLED RD-----CKYDFVEVFDGENENG	HFR 100
Neuropilin CUB2	ILLEFES-FIDLEPDSNPCCCMFCRIYDRLHITWDGFP	DVGP HI 224
mPDGF-C CUB	GRWCGSGTVP GKQTSKGNHIRIRFVSD EYFPSEPGFC	HIY 160
hPDGF-C CUB	GRWCGSGTVPGEQTSKGNQIRIRFVSD EYFPSEPGFC	HIY 133
hBMP-1 CUB1	CRFCGS-KLPEITVSTDSRLWVEFRSSSNWVGK-GFF	FAVY 431
hBMP-1 CUB2	GRYCGY-EKPDIDKSTSRLLWKFVSDGSINKA-GFF	AVNY 544
hBMP-1 CUB3	GKFCGS-EKPEVITSQYNNMRVFEIXSDNTVSKK-GF	KAHF 700
Neuropilin CUB1	GKFCGK-TAPPPVSSGPFLLIKFVSDYETKGA-GF	SIRY 138
Neuropilin CUB2	GKYGCGQ-KTPGRIRSSSGLSMVFIYTD SAIAKE-GF	SANY 262
mPDGF-C CUB	STI	163
hPDGF-C CUB	MLIV	136
hBMP-1 CUB1	EAL	434
hBMP-1 CUB2	FK	546
hBMP-1 CUB3	FSE	703
Neuropilin CUB1	-ET	140
Neuropilin CUB2	SIVL	265

FIG. 11

FIG. 12



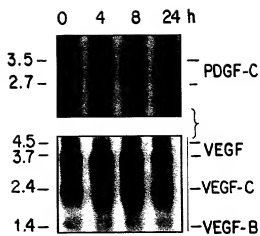


FIG. 13

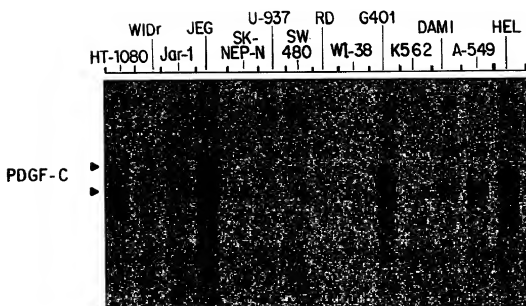


FIG. 14

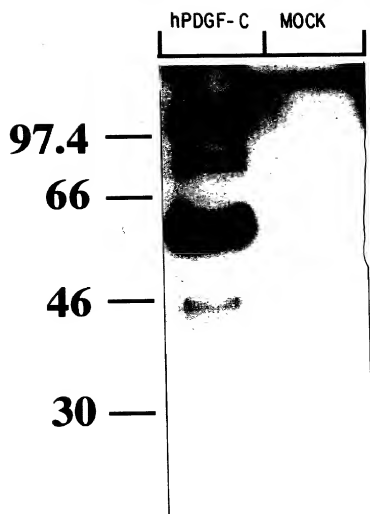


FIG. 15

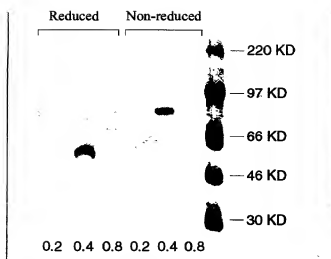


FIG. 16A

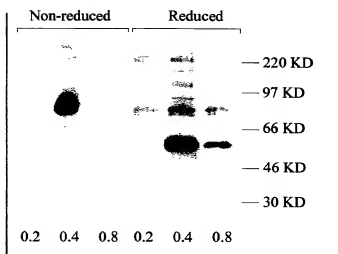


FIG. 16B

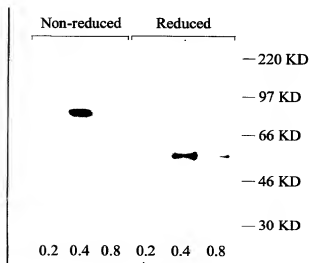


FIG. 16C

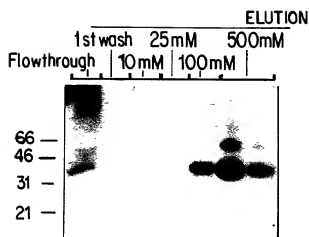


FIG. 17A

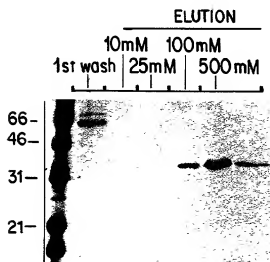


FIG. 17B

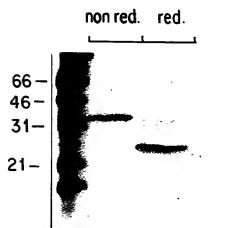


FIG. 17C

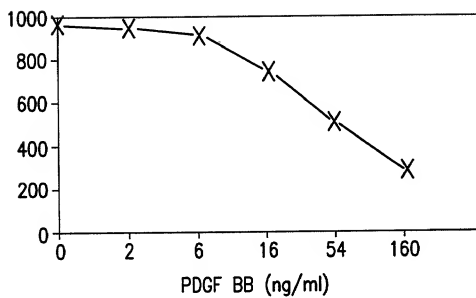


FIG. 18

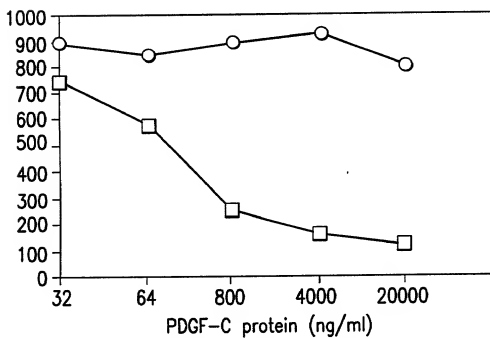
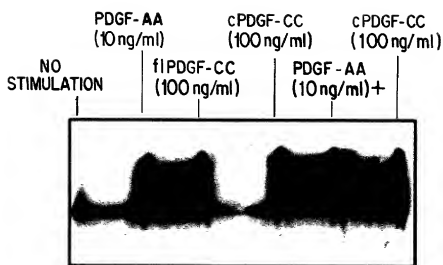


FIG. 19



IP : PDGF alpha-rec.
IB: P-T yr

FIG. 20

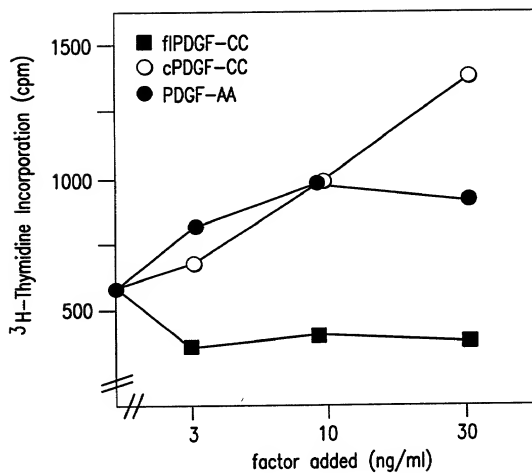


FIG. 21

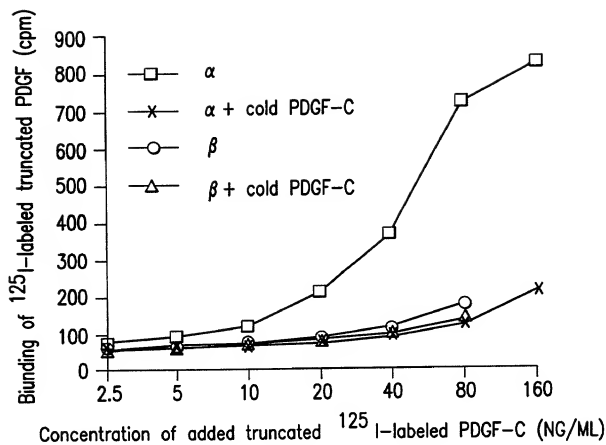


FIG. 22

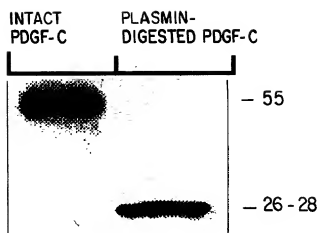


FIG. 23

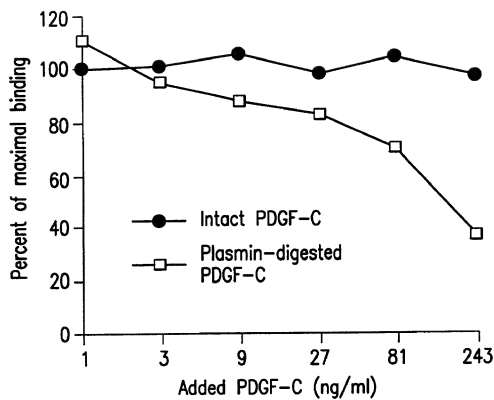


FIG. 24

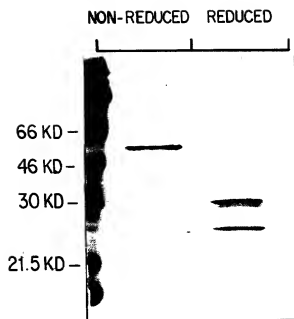


FIG. 25



FIG. 26A



FIG. 26B



FIG. 26C



FIG. 26D



FIG. 26E

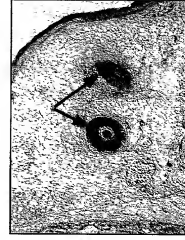


FIG. 26F

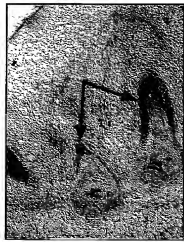


FIG. 26G

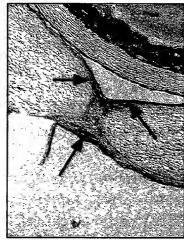


FIG. 26H



FIG. 26I

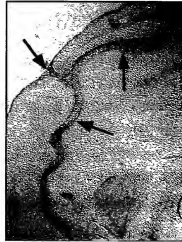


FIG. 26J



FIG. 26K

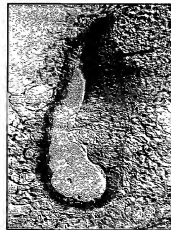


FIG. 26L

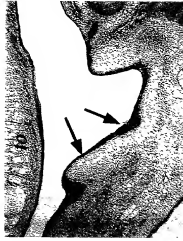


FIG. 26M



FIG. 26N



FIG. 26O



FIG. 26P

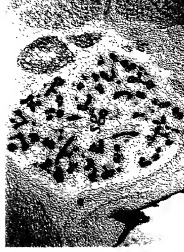


FIG. 26Q



FIG. 26R

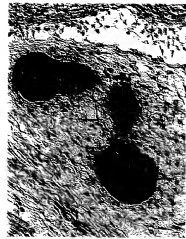


FIG. 26S



FIG. 26T

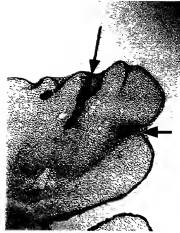


FIG. 26U



FIG. 26V

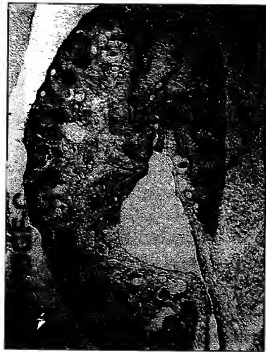


FIG. 27A



FIG. 27B



FIG. 27C



FIG. 27D



FIG.27E

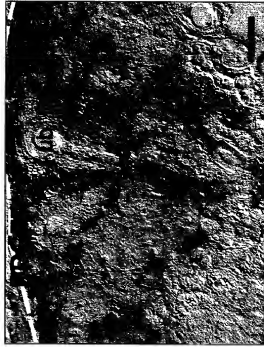


FIG. 27F



FIG. 28A



FIG. 28B

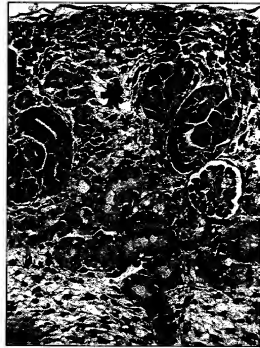


FIG. 28C

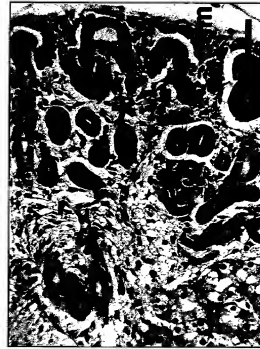


FIG. 28D



FIG. 28E

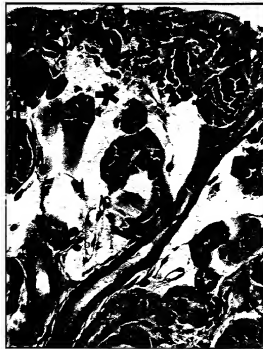


FIG. 28F

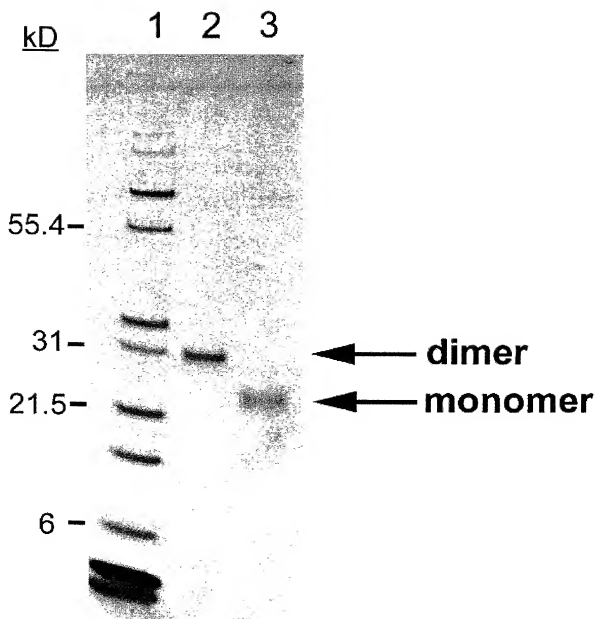


FIG. 29

FIG. 30A



FIG. 30B

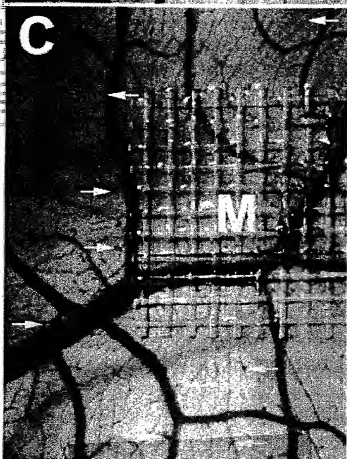
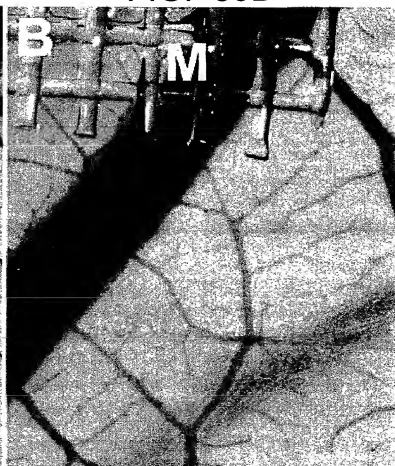


FIG. 30C

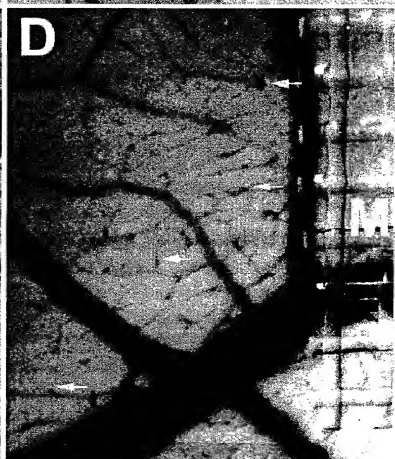


FIG. 30D

FIG. 31A

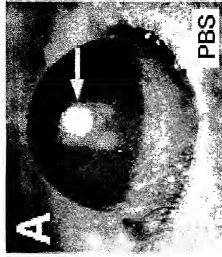


FIG. 31B

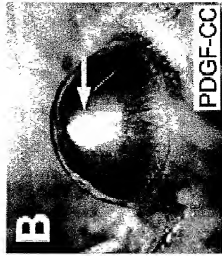


FIG. 31C



FIG. 31D

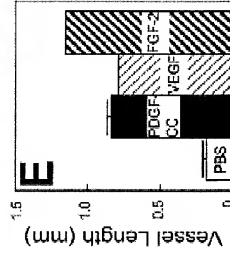


FIG. 31E

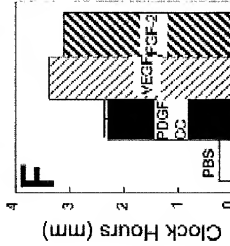


FIG. 31F

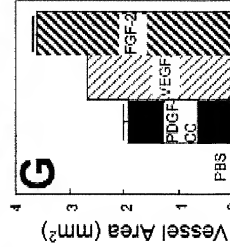


FIG. 31G

FIG. 32A

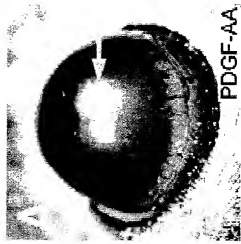


FIG. 32B

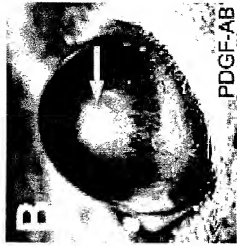


FIG. 32C

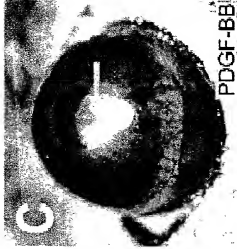
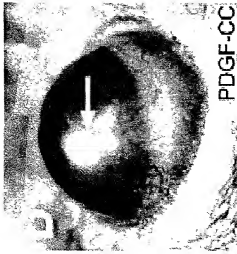


FIG. 32D



1

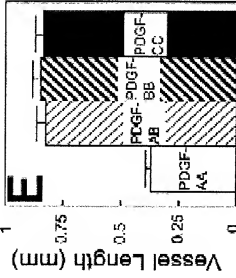


FIG. 32E

2.5

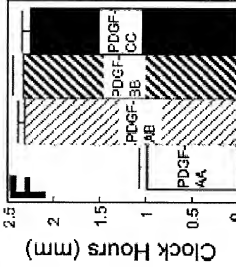


FIG. 32F

2.5

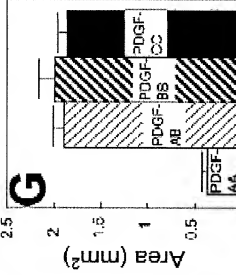


FIG. 32G

FIG. 33A



FIG. 33B

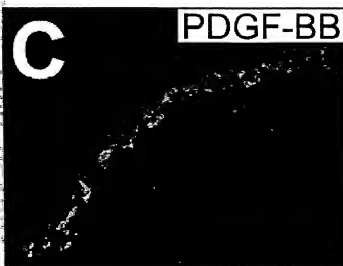


FIG. 33C

FIG. 33D

E

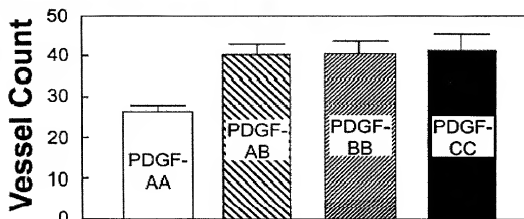


FIG. 33E